

# HLA-DR Monoclonal Antibody (LN3), PerCP-Cyanine5.5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LN3
Conjugate	PerCP-Cyanine5.5
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10718537

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.015 µg)/Test	22 Publications

## Product Specific Information

**Description:** The LN3 mAb reacts with the human major histocompatibility complex (MHC) class II, HLA-DR. HLA-DR is expressed on the surface of human antigen presenting cells (APC) including B cells, monocytes, macrophages, DCs, and activated T cells. HLA-DR is a heterodimeric transmembrane protein composed of alpha and beta subunits and plays an important role in the presentation of peptides to CD4<sup>+</sup> T lymphocytes.

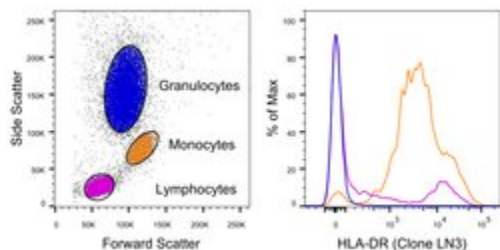
**Applications Reported:** This LN3 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This LN3 antibody is offered in 2 formats: - µg size: has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.015 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.015 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

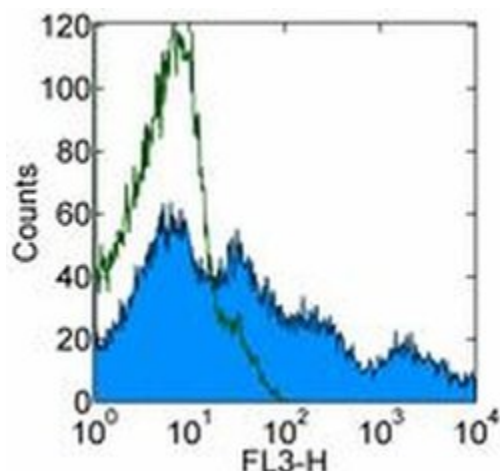
## Advanced Verification Data



### HLA-DR Antibody (45-9956-42)

Staining of human peripheral blood cells. As expected based on known relative expression patterns, HLA-DR clone LN3 stains monocytes and a subset of lymphocytes (B cells) but does not stain granulocytes. Details: Normal human whole blood was surface stained with HLA-DR (clone LN3). After staining, red blood cells were lysed using 1-step Fix/Lyse Buffer. Cells in the lymphocyte (purple histogram), monocyte (orange histogram), or granulocyte (blue histogram) gates were used for analysis of HLA-DR staining. Relative expression validation info.

## Product Images For HLA-DR Monoclonal Antibody (LN3), PerCP-Cyanine5.5, eBioscience™



### HLA-DR Antibody (45-9956-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG2b K Isotype Control PerCP-Cyanine5.5 (Product # 45-4732-82) (open histogram) or Anti-Human HLA-DR PerCP-Cyanine5.5 (filled histogram). Cells in the lymphocyte gate were used for analysis.

View more figures on [thermofisher.com](http://thermofisher.com)

## Flow Cytometry (22)

Journal of translational medicine

### Connecting METTL3 and intratumoural CD33<sup>+</sup> MDSCs in predicting clinical outcome in cervical cancer.

"Published figure using HLA-DR monoclonal antibody (Product # 45-9956-42) in Flow Cytometry"

Authors: Ni HH,Zhang L,Huang H,Dai SQ,Li J

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

JCI insight

### Ovarian granulosa cell tumor characterization identifies FOXL2 as an immunotherapeutic target.

"45-9956 was used in Flow cytometry/Cell sorting to study can serve as a foundation for trials testing immunotherapeutic approaches in patients with ovarian GCT."

Authors: Pierini S,Tanyi JL,Simpkins F,George E,Urbe-Herranz M,Drapkin R,Burger R,Morgan MA,Facciabene A

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

[View more Flow references on thermofisher.com](#)

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